## What is Claimed is:

1. A method for communicating data over a power line, comprising:

receiving a signal from a first portion of the power line via a connection to the power line;

converting at least a portion of the signal to a non-electrically conducting signal; and communicating the non-electrically conducting signal to a non-electrically conductive communication path.

- 2. The method as recited in claim 1, wherein the signal comprises a data component and a power component.
- 3. The method as recited in claim 2, wherein the power component comprises a low frequency signal and the data component comprises a high frequency signal.
- 4. The method as recited in claim 2, further comprising filtering the power component from the data component.
- 5. The method as recited in claim 4, wherein the filtering comprises inductively filtering the power component from the data component.
- 6. The method as recited in claim 4, wherein the filtering comprises capacitively filtering the power component from the data component.
- 7. The method as recited in claim 4, wherein the filtering comprises digitally filtering the power component from the data component.
- 8. The method as recited in claim 2, wherein converting comprises converting the data component of the signal to a non-electrically conducting signal.
- 9. The method as recited in claim 2, further comprising preventing, substantially, the power component of the signal from communicating with the non-electrically conductive communication path.

- 10. The method as recited in claim 1, wherein the non-electrically conductive communication path is a second portion of the power line.
- 11. The method as recited in claim 10, wherein the second portion of the power line carries a lower voltage than the first portion of the power line.
- 12. The method as recited in claim 1, wherein the non-electrically conducting signal is a light signal.
- 13. The method as recited in claim 12, wherein communicating comprises communicating the light signal to a light transmissive and electrically non-conductive communication path.
- 14. The method as recited in claim 12, wherein communicating comprises communicating the light signal to an optic fiber.
- 15. The method as recited in claim 12, wherein communicating comprises communicating the light signal to a light pipe.
- 16. The method as recited in claim 1, wherein the non-electrically conducting signal is a radio frequency signal.
- 17. The method as recited in claim 16, wherein communicating comprises communicating the radio frequency signal to a radio frequency transmissive and electrically non-conductive communication path.
- 18. The method as recited in claim 17 wherein the radio frequency transmissive and electrically non-conductive communication path comprises air.
- 19. The method as recited in claim 1, wherein the receiving the signal comprises receiving the signal via a radio frequency choke in communication with the first portion of the power line.

- 20. The method as recited in claim 1, wherein the receiving the signal comprises receiving the signal from the first portion of the power line via a direct electrical connection to the power line.
- 21. The method as recited in claim 1, further comprising demodulating the signal.
- 22. The method as recited in claim 21, further comprising routing the demodulated signal.
- 23. The method as recited in claim 1, further comprising receiving the non-electrically conducting signal.
- 24. The method as recited in claim 23, further comprising converting the non-electrically conducting signal to an electrically conducting signal for communication to a second communication path.
- 25. The method as recited in claim 24, further comprising communicating the electrically conducting signal to a second portion of the power line.
- 26. The method as recited in claim 25, further comprising communicating the electrically conducting signal to a telephone line.
- 27. The method as recited in claim 23, further comprising converting the non-electrically conducting signal to a radio frequency signal for communication to a second communication path.
- 28. The method as recited in claim 27, further comprising communicating the radio frequency signal to air.
- 29. An apparatus for communicating data over a power line, the apparatus comprising: a coupling device that connects to the power line and receives a signal from the power line; and
- a signal conversion device in communication with the coupling device that converts the signal to a non-electrically conducting signal.

- 30. The apparatus as recited in claim 29, wherein the coupling device comprises a tap.
- 31. The apparatus as recited in claim 29, wherein the coupling device comprises a direct electrical connection.
- 32. The apparatus as recited in claim 29, wherein the coupling device comprises a radio frequency choke.
- 33. The apparatus as recited in claim 29, wherein the coupling device comprises a capacitor.
- 34. The apparatus as recited in claim 29, wherein the signal conversion device comprises an optoelectronic transceiver.
- 35. The apparatus as recited in claim 29, wherein the signal conversion device comprise a one of a light-emitting diode, a laser, a vertical cavity surface emitting laser, a photosensitive diode, and a photosensitive transistor.
- 36. The apparatus as recited in claim 29, wherein the signal comprises a power component and a data component and the apparatus further comprises a filtering device in communication with the coupling device that filters the power component from the data component.
- 37. The apparatus as recited in claim 36, wherein the filtering device comprises a capacitor.
- 38. The apparatus as recited in claim 29, further comprising a power supply having a power input and a power output, the power input for electrically coupling to the power line and the power output electrically coupled to the signal conversion device.
- 39. The apparatus as recited in claim 38, wherein the power supply comprises a toroidally shaped coil having a magnetically permeable core for electrical coupling to the power line.

- 40. The apparatus as recited in claim 29, further comprising a non-electrically conductive communication path.
- 41. The apparatus as recited in claim 40, wherein the communication path comprises an optically transmissive and electrically non-conductive path.
- 42. The apparatus as recited in claim 40, wherein the communication path comprises a light pipe.
- 43. The apparatus as recited in claim 40, wherein the communication path comprises an optic fiber.
- 44. The apparatus as recited in claim 29, further comprising a weather-tight housing containing at least a portion of the signal conversion device.
- 45. A system for communicating data over a power line, the system comprising:
  a coupling device that connects to the power line and receives a signal from the power line; and
- a signal conversion device in communication with the coupling device that converts the signal to a non-electrically conducting signal; and
  - a communication interface device that receives the non-electrically conducting signal.
- 46. The system as recited in claim 45, wherein the communication interface device comprises a modem.
- 47. The system as recited in claim 46, further comprising a data router in communication with the modem.
- 48. The system as recited in claim 45, wherein the communication interface device comprises:
- a second signal conversion device that receives the non-electrically conducting signal and converts the received signal for communication over a communication path; and

a second coupling device in communication with the second signal conversion device that communicates the converted signal to the communication path.

- 49. The system as recited in claim 48, wherein the communication path is a second power line.
- 50. The system as recited in claim 48, wherein the communication path is a telephone line.
- 51. The system as recited in claim 48, wherein the communication path is a wireless communication link.
- 52. The system as recited in claim 48, wherein the second coupling device comprises a toroidally shaped inductor.
- 53. The system as recited in claim 48, wherein the second coupling device comprises a tap.
- 54. The system as recited in claim 48, wherein the second coupling device comprises a capacitor.
- 55. The system as recited in claim 48, wherein the second signal conversion device comprises an optoelectronic transceiver.
- 56. The system as recited in claim 48, wherein the second signal conversion device comprises at least one of a light-emitting diode, a laser, a vertical cavity surface emitting laser, a photosensitive diode, and a photosensitive transistor.
- 57. The system as recited in claim 48, wherein the second signal conversion device comprises a radio frequency transceiver.